

ABSTRACTTREATMENT OF EFFLUENTS ASSOCIATING SOLID / LIQUID
SEPARATION AND PULSED ELECTRIC FIELDS

This invention discloses the treatment of effluents in which a flow of the said effluents is subjected to a pulsed electric field that modifies
5 physicochemical and biologic characteristics of the medium, this modification being used during a solid / liquid separation operation, of the settlement or membrane filtration type. The solid / liquid separation operation (13, 14, 15) and the application of a pulsed
10 electric field (12) are operations carried out at different locations along the effluent flow. The pulsed electric field has voltage value, current value, pulse repetition frequency and voltage front shape characteristics chosen such that the required effluent
15 treatment can be achieved as a function of the locations at which these membrane filtration operations are carried out and a pulsed electric field is applied.

(Figure 3)